

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-7. (Canceled)

8. (Currently amended) An isolated human smooth muscle myosin heavy chain polypeptide, wherein the polypeptide

(a) ~~comprises an amino acid sequence that has greater than 95% amino acid sequence identity to the amino acid sequence of SEQ ID NO:2, or comprises the amino acid sequence of SEQ ID NO:6; SEQ ID NO:8; SEQ ID NO:10; SEQ ID NO:12; or SEQ ID NO:14;~~  
and

(b) has ATPase activity or actin binding activity.

9-15. (Canceled)

16. (New) An isolated human smooth muscle myosin heavy chain polypeptide, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:6 and has ATPase activity or actin binding activity.

17. (New) An isolated human smooth muscle myosin heavy chain polypeptide, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:8 and has ATPase activity or actin binding activity.

18. (New) An isolated human smooth muscle myosin heavy chain polypeptide, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:10 and has ATPase activity or actin binding activity.

19. (New) An isolated human smooth muscle myosin heavy chain polypeptide, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:12 and has ATPase activity or actin binding activity.

20. (New) An isolated human smooth muscle myosin heavy chain polypeptide, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:14 and has ATPase activity or actin binding activity.